

## Gunter, Jason

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**From:** Nations, Mark [mnations@doerun.com]  
**Sent:** Wednesday, June 12, 2013 6:16 PM  
**To:** Gunter, Jason  
**Cc:** England, Jason; Yingling, Mark; Wohl, Matthew; robert.hinkson@dnr.mo.gov; Ty Morris (TMorris@barr.com)  
**Subject:** May Progress Report  
**Attachments:** RM 05-13.doc; Pilot Test Samples.pdf

Jason, attached is the May report.  
Mark

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**THE  
DOE RUN  
COMPANY**

*Remediation Group*

**Mark Nations**  
**Mining Properties Manager**  
***mnations@doerun.com***

May 12, 2013

Mr. Jason Gunter  
Remedial Project Manager  
U.S. Environmental Protection Agency  
Region 7 - Superfund Branch  
11201 Renner Blvd.  
Lenexa, KS 66219

**Re: The Doe Run Company – Elvins/Rivermines Mine Tailings Site Monthly Progress Report**

Dear Mr. Gunter:

As required by Article VI, Section 56 of the Unilateral Administrative Order (UAO) (CERCLA-07-2005-0169) for the referenced project and on behalf of The Doe Run Company, the progress report for the period May 1, 2013 through May 31, 2013 is enclosed. If you have any questions or comments, please call me at 573-518-0800.

Sincerely,



Mark Nations  
Mining Properties Manager

Enclosures

c: Jason England – TDRC  
Mark Yingling – TDRC (electronic only)  
Matt Wohl – TDRC (electronic only)  
Robert Hinkson – MDNR  
Ty Morris – Barr Engineering

**Elvins/Rivermines Mine Tailings Site**  
Park Hills, Missouri  
**Removal Action - Monthly Progress Report**  
Period: May 1, 2013 – May 31, 2013

**1. Actions Performed and Problems Encountered This Period:**

- a. Continued operating the roughing filter, ZVI filter, aeration tank, and final sand filter during the period.
- b. Flow restrictions and head losses caused the roughing filter to overflow during the period. Due to influent plugging of the ZVI filter inlet or inlet pipe, additional head loss in the inlet pipe/structure caused the water level in the Roughing filter (biofilter) to rise and overflow the pool sides.
- c. Continued to take analytical samples from the pilot test two to three times a week. Samples were taken from the roughing filter (RMP-Rough), the aeration tank (RMP-Polish), and the final sand filter (RMP-Effluent).
- d. Continued to take analytical samples from the seep pond effluent and the western treatment pond effluent to monitor the metals reduction of the treatment pond.
- e. Restrictions in the 6-inch diameter pipe leading to the west treatment cell continued despite action in the previous period to alleviate the restrictions. The restrictions caused overflowing in the seepage collection pond, which required restoring flow to the pipe leading to the east treatment cell. Small holes were drilled in the up gradient end of the pipe to check for the presence of entrapped air, however the pipe appeared to contain no entrapped air, and flow restrictions are assumed to be caused from solid debris. A pipe cleaning contractor may be hired next period to remove any debris from the pipes.

**2. Analytical Data and Results Received This Period:**

- a) Dissolved zinc concentrations in the polishing filter effluent ranged between 0.005 mg/L and 4.28 mg/L during the period.
- b) Total zinc concentrations in the polishing filter ranged between 0.90 mg/L and 4.31 mg/L during the period.
- c) Total iron concentrations in the polishing filter ranged between 0.45 mg/L and 1.90 mg/L during the period.
- d) Total suspended solids concentrations in the polishing filter effluent ranged between non-detect and 5.0 mg/L during the period.
- e) During this period, water samples were collected from just upstream of Old Missouri Highway 32, as well as from upstream and downstream of the confluence of the site discharge with Flat River. The analytical results for this event are included in this progress report.

**3. Developments Anticipated and Work Scheduled for Next Period:**

- a.
  - a) **Cha** Continue analytical sampling and field measurements three times a week. No WET tests are planned.

- b) Continue to operate the renovated pilot test.
- c) Complete monthly water sampling activities as described in the Removal Action Work Plan.
- d) Complete air monitoring activities as described in the Removal Action Work Plan.
- e) Continue monitoring the western treatment pond to see that the hydraulics are working properly and evaluate the metals reduction as the pond continues to come online.
- f) Further investigate the possibility of locating a pipe cleaning contractor to investigate and remove the obstruction in the west pond piping.
- g) Pending successful removal of the west pond obstructions, initial phases of cleanout of the old media in the east pond.

**4. Changes in Personnel:**

- a. None.

**5. Issues or Problems Arising This Period:**

- a. None.

**6. Resolution of Issues or Problems Arising This Period:**

- a. None.

**End of Monthly Progress Report**